

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10756868
Filing Date	2004-01-13
First Named Inventor	Joseph Odenwalder
Art Unit	2611
Examiner Name	TSE, YOUNG TOI
Attorney Docket Number	PA298B2A3D1

## **U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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	4	3715508		1973-02-06	HERMAN L. BLASBALG	
	5	3795864		1974-03-05	JAMES MCFERRIN FULTON, JR.	
	6	3959726		1976-05-25	SHIGEHICO HINOSHITA, ET AL.	
	7	4002991		1977-01-11	MINORU OGITA	
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9	4020461		1977-04-26	WILLIAM B. ADAMS, ET AL.	
10	4048563		1977-09-13	EUGENE F. OSBORNE	
11	4052565		1977-10-04	DENMER DIX BAXTER, ET AL.	
12	4092601		1978-05-30	WILLIAM H. LEE, ET AL.	
13	4100376		1978-07-11	SAUL L. WOYTHALER	
14	4121159		1978-10-17	ERNST LAMPERT	
15	4152851		1979-05-01	ERNST LAMPERT, ET AL.	
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18	4188580		1980-02-12	CARL R. NICOLAI, ET AL.	
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20	4193031		1980-03-11	GEORGE R. COOPER, ET AL.	
21	4203070		1980-05-13	WILLIAM M. BOWLES, ET AL.	
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24	4222115		1980-09-09	GEORGE R. COOPER, ET AL.	
25	4247939		1981-01-27	CHESTER E. STROMSWOLD, ET AL.	
26	4276646		1981-06-30	ROGER L. HAGGARD, ET AL.	
27	4287577		1981-09-01	JOSEPH H. DEAL, JR.	
28	4291409		1981-09-22	AARON WEINBERG, ET AL.	
29	4291410		1981-09-22	EDGAR L. CAPLES, ET AL.	
30	4301530		1981-11-17	FRANK S. GUTLEBER	

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31	4308617		1981-12-29	EDGAR H. GERMAN, JR.	
32	4309769		1982-01-05	TALIAFERRO H. TAYLOR, JR.	
33	4313211		1982-01-26	KENNETH W. LELAND	
34	4361890		1982-11-30	JAMES H. GREEN, JR., ET AL.	
35	4361891		1982-11-30	HELMUT LOBENSTEIN, ET AL.	
36	4365327		1982-12-21	GIANCARLO PIRANI	
37	4394760		1983-07-19	KARL KAMMERLANDER	
38	4396289		1983-08-09	FREDERIK C. SCHOUTE	
39	4434323		1984-02-28	STEPHEN N. LEVINE, ET AL.	
40	4451916		1984-05-29	PAUL W. CASPER, ET AL.	
41	4460992		1984-07-17	FRANK S. GUTLEBER	

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42	4472815		1984-09-18	FRANK S. GUTLEBER	
43	4484335		1984-11-20	WILLIAM H. MOSLEY, ET AL.	
44	4501002		1985-02-19	RICHARD C. AUCHTERLONIE	
45	4512024		1985-04-16	FRANK S. GUTLEBER	
46	4536875		1985-08-20	HIROSHI KUME, ET AL.	
47	4551853		1985-11-05	PIERRE DEMEN, ET AL.	
48	4559633		1985-12-17	KAZUTOSHI KAN, ET AL.	
49	4561089		1985-12-24	DONALD W. ROUSE, ET AL.	
50	4567588		1986-01-28	JOHN W. JERRIM	

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**U.S. PATENT APPLICATION PUBLICATIONS**

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**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1	2111229	CA		2001-06-12	ERICSSON - GE MOBILE COMMUNICATIONS INC.		<input type="checkbox"/>
	2	036605	EP		1981-09-30	SIEMENS AG		<input type="checkbox"/>
	3	111937	EP		1984-06-27	NEC CORPORATION		<input type="checkbox"/>
	4	264784	EP		1988-04-27	NEC CORPORATION		<input type="checkbox"/>
	5	412583	EP		1991-02-13	MOTOROLA, INC.		<input type="checkbox"/>
	6	418865	EP		1991-03-27	NIPPON		<input type="checkbox"/>
	7	444592	EP		1991-04-09	NEC CORPORATION		<input type="checkbox"/>
	8	566550	EP		1993-10-20	ERICSSON - GE MOBILE COMMUNICATIONS INC.		<input type="checkbox"/>

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9	615355	EP		1994-09-14	NTT MOBILE COMMUNICATIONS NETWORK INC.		<input type="checkbox"/>
10	620658	EP		1994-10-19	NIPPON TELEGRAPH & TELEPHONE		<input type="checkbox"/>
11	639899	EP		1995-02-22	NTT MOBILE COMMUNICATIONS NETWORK INC.		<input type="checkbox"/>
12	693830	EP		1996-01-01	HITACHI LTD.		<input type="checkbox"/>
13	758168	EP		1997-02-01	NIPPON		<input type="checkbox"/>
14	903871	EP		1999-03-24	SAMSUNG ELECTRONICS CO LTD		<input type="checkbox"/>
15	2125654	GB		1984-03-01	HAZELTINE CORP.		<input type="checkbox"/>
16	2182528	GB		1986-10-01	RACAL DATA		<input type="checkbox"/>
17	7918781	GB		1979-12-01	TEXAS INSTRUMENTS		<input type="checkbox"/>
18	0444592	JP		1992-07-22	MITSUBISHI PAPER MILLS LTD		<input type="checkbox"/>
19	06-501349	JP		1994-02-10	QUALCOMM, INC.		<input type="checkbox"/>

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20	09-008770	JP		1997-01-10	MIYA KAZUYUKI		<input type="checkbox"/>
21	09-83600	JP		1987-03-28	KOKUSAI ELECTRIC CO. LTD.		<input type="checkbox"/>
22	2000-511721	JP		2000-09-05	QUALCOMM, INC.		<input type="checkbox"/>
23	2125654	JP		1990-05-14	NEC CORPORATION		<input type="checkbox"/>
24	2182528	JP		1990-07-17	RACAL DATA		<input type="checkbox"/>
25	9107030	JP		1987-04-22	MOTOROLA, INC.		<input type="checkbox"/>
26	2050695	RU		1995-12-20	MOSC AVIATION ENG INST		<input type="checkbox"/>
27	2313176	RU		2007-12-20	QUALCOMM, INC.		<input type="checkbox"/>
28	1053302	SU		1983-11-07	VASILEV NA		<input type="checkbox"/>
29	1327217	SU		1987-07-30	MAGN MINE-METAL		<input type="checkbox"/>
30	9107030	WO		1991-05-16	MOTOROLA, INC.		<input type="checkbox"/>



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31	92000639	WO		1992-01-09	QUALCOMM, INC.		<input type="checkbox"/>
32	92017011	WO		1992-10-01	MOTOROLA, INC.		<input type="checkbox"/>
33	92017012	WO		1992-10-01	MOTOROLA, INC.		<input type="checkbox"/>
34	94012452	WO		1994-06-09	STEVEN WADE (BRITISH PETROLEUM)		<input type="checkbox"/>
35	95003652	WO		1995-02-02	QUALCOMM, INC.		<input type="checkbox"/>
36	95006987	WO		1995-03-09	SAWAHASHI, ET AL.		<input type="checkbox"/>
37	95012262	WO		1995-05-04	QUALCOMM, INC.		<input type="checkbox"/>
38	95012943	WO		1995-05-11	QUALCOMM, INC.		<input type="checkbox"/>
39	95023464	WO		1995-08-31	MOTOROLA, INC.		<input type="checkbox"/>
40	96000466	WO		1999-03-24	QUALCOMM, INC.		<input type="checkbox"/>
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42	96020967	WO		1996-07-11	MINNESOTA MINING AND MANUFACTURING COMPANY		<input type="checkbox"/>
43	96022639	WO		1996-07-25	QUALCOMM, INC.		<input type="checkbox"/>
44	96032781	WO		1996-10-17	NOKIA MOBILE PHONES LTD.		<input type="checkbox"/>
45	97001227	WO		1997-01-09	QUALCOMM, INC.		<input type="checkbox"/>
46	98032781	WO		1998-07-30	NOKIA		<input type="checkbox"/>

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## **NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	INTERNATIONAL SEARCH REPORT PCT/US97/009606, INTERNATIONAL SEARCH AUTHORITY-EUROPEAN PATENT OFFICE, N/A	<input type="checkbox"/>
	2	INTERNATIONAL SEARCH REPORT- PCT/US97/009959, INTERNATIONAL SEARCH AUTHORITY-EUROPEAN PATENT OFFICE, 10/3/97	<input type="checkbox"/>
	3	INTERNATIONAL SEARCH REPORT- PCT/US98/009868, INTERNATIONAL SEARCH AUTHORITY-EUROPEAN PATENT OFFICE, 11/23/98	<input type="checkbox"/>
	4	INTERNATIONAL SEARCH REPORT- PCT/US98/013678, INTERNATIONAL SEARCH AUTHORITY, 5/7/99	<input type="checkbox"/>

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5	LEONARD, R. "Ratio Squarer," I-R-E. November 1954, pages 1704.	<input type="checkbox"/>
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8	COOPER, GEORGE C., ET AL., "Cellular Land- Mobile Radio: Why Spread Spectrum?" IEEE Communications Magazine, March 1979, Pages 278-285	<input type="checkbox"/>
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14	HOTTINEN, A. et al. "A Flexible Multirate CDMA concept with multiuser detection" SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS PROCEEDINGS, 1996, IEEE 4th International Symposium on Mainz, Germany 1996. New York, IEEE Vol 2, 22 September 1996. pages 556-560	<input type="checkbox"/>
15	KARR, ALBRAT R., ET AL., "Digital Phones Cause Problems in Hearing Aids," The Wall Street Journal. 2 pages.	<input type="checkbox"/>

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16	KREYSZ, ERWIN, "Advance Engineering Mathematics," 1979, John Wiley & Sons, Section 4.7, Pages 186-190	<input type="checkbox"/>
17	LEBERT, FREDERICK J., "Walsh Function Generator for a Million Different Functions," Applications of Walsh Functions, 1970, Pages 52-54	<input type="checkbox"/>
18	LEE, BONG WOON, ET AL., "On Interference Suppression Using Complementary Filters in DS-DSS," IEEE, Vol 2, 1989, Pages 0485-0490	<input type="checkbox"/>
19	LEE, JHONG S., "Digital Generation of Walsh Functions for Orthogonal Multiplexing Application," Application of Walsh Functions, Pages 222-227.	<input type="checkbox"/>
20	MACHRONE, BILL "America's Telecommunications Industry Is Teetering On The Brink. The FCC Has Auctioned Off Billions of Dollars' Worth of Radion Spectrum For The Industry to Offer New Wireless Services, Called PS (Personal Communications Services). The Winners Must." July 1985. Page 85	<input type="checkbox"/>
21	NICK, H.H., "Binary Logic Walsh Function Generator," IBM Technical Disclosure Bulletin, Vol. 22 No. 10, March 1980, Pages 4650-4651	<input type="checkbox"/>
22	OHNO, Wideband Coherent DS-CDMA" et al pages 779-783, IEEE 1995	<input type="checkbox"/>
23	SIMON, MARVIN K., ET AL., "Spread Spectrum Communications," Computer Science Press, Vol. I, 1985, pp. 98-104	<input type="checkbox"/>
24	VITERBI, ANDREW J., ET AL, "Nonlinear Estimation of PSK-Modulation Carrier Phase With Application to Burst Digital Transmission," IEEE Transaction on Information Theory, Vol. IT-29, No. 4, July 1983, Pages 543-551	<input type="checkbox"/>
25	W., RAYMONT, "Spectral Efficiency in Cellular Land-Mobile Communications: A Spread Spectrum Approach," U-M-I Dissertation Information Service, 1978	<input type="checkbox"/>
26	WESTMAN, T., ET AL., "CDMA system for UMTS high bit rate services" Vehicular Technology Conference, 1997, IEEE 47th Phoenix, Az, May 1997 New York, NY, IEEE, US, Vol 2, 4 May 1997, pages 825-829	<input type="checkbox"/>

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